

In The Claims

1. An herbicide composition comprising a PS II inhibitor and a salicylate or other SAR inducer.
2. An herbicide composition as in claim 1 wherein the PS II inhibitor is atrazine.
3. An herbicide composition as in claim 1 wherein the PS II inhibitor is bentazon.
4. An herbicide composition as in claim 1 wherein the PS II inhibitor is from 1.0% to 0.05% of the composition and the salicylate is from 0.5% to 0.05% of the composition.
5. An herbicide composition as in claim 1 that is dissolved in water.
6. An herbicide composition as in claim 5 wherein the water is from 0.1% to 99.9% of the composition.
7. The herbicide composition of claim 1 wherein the SAR inducer is a salicylate.
8. An herbicide composition as in claim 7 wherein the salicylate is sodium salicylate.
9. An herbicide composition as in claim 7 wherein the salicylate is salicylic acid or a salicylate derivative.
10. The herbicide composition of claim 1 wherein the salicylate is a hydroxypyridinecarboxylic acid or derivative thereof.
11. An herbicide composition as in claim 10 wherein the hydroxypyridinecarboxylic acid is 3-hydroxypicolinic acid.
12. An herbicide composition as in claim 1 wherein the SAR inducer is Acibenzolar-S-methyl.
13. An herbicide composition as in claim 1 wherein the SAR inducer is 2,6-dichloroisonicotinic acid.
14. An herbicide composition as in claim 1 wherein the SAR inducer is 4-chlorosalicylic acid.
15. An herbicide composition as in claim 1 wherein the SAR inducer is 5-chlorosalicylic acid.
16. An herbicide composition as in claim 1 wherein the SAR inducer is 3,5-dichlorosalicylic acid.

17. An herbicide composition as in claim 1 wherein the SAR inducer is an inducer of plant defense to pathogen attack.
18. A method of controlling plant growth comprising applying to a plant a herbicidally effective amount of a herbicidal composition of claim 1.